

[illegible]

```
LL      NN      NN      KK      KK      IIIIII      NN      NN      IIIIII
LL      NN      NN      KK      KK      IIIIII      NN      NN      IIIIII
LL      NN      NN      KK      KK      II         NN      NN      II
LL      NN      NN      KK      KK      II         NN      NN      II
LL      NNNN     NN      KK      KK      II         NNNN     NN      II
LL      NNNN     NN      KK      KK      II         NNNN     NN      II
LL      NN      NN      KKKKKK      II         NN      NN      II
LL      NN      NN      KKKKKK      II         NN      NN      II
LL      NN      NNNN     KK      KK      II         NN      NNNN     II
LL      NN      NNNN     KK      KK      II         NN      NNNN     II
LL      NN      NN      KK      KK      II         NN      NN      II
LL      NN      NN      KK      KK      II         NN      NN      II
LLLLLLLLLLLL NN      NN      KK      KK      IIIIII     IIIIII
LLLLLLLLLLLL NN      NN      KK      KK      IIIIII     IIIIII
```

```
LL      IIIIII      SSSSSSSS
LL      IIIIII      SSSSSSSS
LL      II         SS
LL      II         SS
LL      II         SS
LL      II         SS
LL      II         SSSSSS
LL      II         SSSSSS
LL      II         SS
LL      II         SS
LL      II         SS
LL      II         SS
LLLLLLLLLLLL IIIIII      SSSSSSSS
LLLLLLLLLLLL IIIIII      SSSSSSSS
```

LNK_INIT
V04-000

L 15
16-Sep-1984 00:05:15
14-Sep-1984 12:40:30

VAX-11 Bliss-32 V4.0-742
[LINKER.SRC]LNKINI.B32;1

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```
1 0001 0 MODULE LNK_INIT (IDENT='V04-000',
2 0002 0 ADDRESSING_MODE(EXTERNAL=GENERAL,
3 0003 0 NONEXTERNAL=LONG_RELATIVE)
4 0004 0 ) =
5 0005 0
6 0006 1 BEGIN
7 0007 1
8 0008 1
9 0009 1 *****
10 0010 1 *
11 0011 1 * COPYRIGHT (c) 1978, 1980, 1982, 1984 BY
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28 0028 1 *
29 0029 1 *
30 0030 1 *****
31 0031 1
32 0032 1
33 0033 1
34 0034 1
35 0035 1
36 0036 1 ++
37 0037 1
38 0038 1 MODULE: LNK_INIT
39 0039 1
40 0040 1 FACILITY: LINKER
41 0041 1
42 0042 1 ABSTRACT: INITIALIZATION ROUTINE
43 0043 1
44 0044 1 HISTORY:
45 0045 1
46 0046 1 VERSION: X01.00
47 0047 1
48 0048 1 AUTHOR: T.J. PORTER 03-JAN-77
49 0049 1
50 0050 1 MODIFIED BY:
51 0051 1
52 0052 1 V03-001 BLS0007 Benn Schreiber, 3-Jun-1980
53 0053 1 Convert to MDL datqa structures.
54 0054 1 --
```



```
56 0055 1 |  
57 0056 1 |++  
58 0057 1 |  
59 0058 1 | FUNCTIONAL DESCRIPTION:  
60 0059 1 |  
61 0060 1 | ROUTINE WHICH INITIALIZES THE LINKER. IT TAKES NO EXPLICIT  
62 0061 1 | INPUT. THE FOLLOWING INITIALIZATION IS DONE, IN ORDER:  
63 0062 1 | 1. HASH TABLE ALLOCATED FOR THE SYMBOL TABLE  
64 0063 1 | 2. DEFAULT VALUES ESTABLISHED FOR STACK, BASE ADDRESS  
65 0064 1 | AND LINK CONTROL MASK.  
66 0065 1 |  
67 0066 1 |--  
68 0067 1 |  
69 0068 1 | LIBRARY  
70 0069 1 | 'STARLETL32';  
71 0070 1 | REQUIRE  
72 0071 1 | 'PREFIX';  
73 0186 1 | LIBRARY  
74 0187 1 | 'DATBAS';  
75 0188 1 |  
76 0189 1 | EXTERNAL ROUTINE  
77 0190 1 | LNK$ALLOBLK : NOVALUE; ! ALLOCATE DYNAMIC MEMORY  
78 0191 1 |  
79 0192 1 | EXTERNAL LITERAL  
80 0193 1 | DEF$C_STACK : SHORT, ! DEFAULT STACK SIZE  
81 0194 1 | DEF$C_LNKCTL; ! DEFAULT CONTROL MASK  
82 0195 1 |  
83 0196 1 | EXTERNAL  
84 0197 1 | LNK$GL_FVMLST : REF BLOCK[.BYTE], ! HEAD OF FREE VIRTUAL MEMORY LIST  
85 0198 1 | LNK$GL_CTLMSK : BLOCK[.BYTE], ! LINK CONTROL MASK  
86 0199 1 | LNK$GW_STACK : WORD, ! STACK SIZE  
87 0200 1 | SYM$GL_HASHTBL;  
88 0201 1 |  
89 0202 1 | GLOBAL ROUTINE LNK$INIT : NOVALUE =  
90 0203 2 | BEGIN  
91 0204 2 |  
92 0205 2 | LOCAL SYMENTALLO; ! ALLOCATED SIZE FOR SYMBOL TABLE ENTRIES  
93 0206 2 |  
94 0207 2 | LNK$ALLOBLK(SYM$C_TBLSIZ*4,SYM$GL_HASHTBL); ! ALLOCATE A HASH TABLE  
95 0208 2 | CH$FILL(0,SYM$C_TBLSIZ*4,SYM$GL_HASHTBL); ! CLEAR THE TABLE  
96 0209 2 | LNK$GW_STACK = DEF$C_STACK; ! SET DEFAULT STACK SIZE  
97 0210 2 | LNK$GL_CTLMSK = DEF$C_LNKCTL; ! DEFAULT CONTROL FLAGS  
98 0211 2 | LNK$ALLOBLK(FVM$C_SIZE,LNK$GL_FVMLST); ! ALLOCATE FIRST FREE MEMORY DESCRIPTOR  
99 0212 2 | LNK$GL_FVMLST[FVM$C_NXTFVM] = 0; ! POINTS NOWHERE  
100 0213 2 | LNK$GL_FVMLST[FVM$C_ADDRESS] = 0; ! ASSUME BASE OF PROGRAM REGION  
101 0214 2 | LNK$GL_FVMLST[FVM$C_BYTES] = CONTROL_REGION; ! AND ALL OF REGION  
102 0215 2 | RETURN;  
103 0216 1 | END;
```

```
.TITLE LNK_INIT  
.IDENT \V04-000\
```

```
.EXTRN LNK$ALLOBLK, DEF$C_STACK  
.EXTRN DEF$C_LNKCTL, LNK$GL_FVMLST  
.EXTRN LNK$GL_CTLMSK, LNK$GW_STACK  
.EXTRN SYM$GL_HASHTBL
```

				.PSECT \$CODE\$,NOWRT,2		
				.ENTRY	LNK\$INIT, Save R2,R3,R4,R5,R6,R7,R8	0202
				MOVAB	SYM\$GL_HASHTBL, R8	
				MOVAB	LNK\$GL_FVMLST, R7	
				MOVAB	LNK\$ALLOBLK, R6	
				PUSHL	R8	0207
				MOVZWL	#1108, -(SP)	
				CALLS	#2, LNK\$ALLOBLK	
				MOVL	SYM\$GL_HASHTBL, R0	0208
				MOVCS	#0, (SP), #0, #1108, (R0)	
				MOVZBW	S^DEF\$C_STACK, LNK\$GW_STACK	0209
				MOVL	#DEF\$C_CNKCTL, LNK\$GL_CTLMSK	0210
				PUSHL	R7	0211
				PUSHL	#12	
				CALLS	#2, LNK\$ALLOBLK	
				MOVL	LNK\$GL_FVMLST, R0	0212
				CLRQ	(R0)	
				MOVL	#1073741824, 8(R0)	0214
				RET		0216

; Routine Size: 83 bytes, Routine Base: \$CODE\$ + 0000

; 104 0217 0 END ELUDOM

PSECT SUMMARY		
Name	Bytes	Attributes
\$CODE\$	83	NOVEC,NOWRT, RD , EXE,NOSHR, LCL, REL, CON,NOPIC,ALIGN(2)

Library Statistics					
File	----- Total	Symbols Loaded	----- Percent	Pages Mapped	Processing Time
\$255\$DUA28:[SYSLIB]STARLET.L32;1	9776	6	0	581	00:01.0
\$255\$DUA28:[LINKER.OBJ]DATBAS.L32;1	538	5	0	28	00:00.5

; COMMAND QUALIFIERS

LNK-INIT
V04=000

B 16
16-Sep-1984 00:05:15
14-Sep-1984 12:40:30

VAX-11 Bliss-32 V4.0-742
[LINKER.SRC]LNKINI.B32;1

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; BLISS/CHECK=(FIELD,INITIAL,OPTIMIZE)/LIS=LISS:LNKINI/OBJ=OBJ\$:LNKINI MSRC\$:LNKINI/UPDATE=(ENHS:LNKINI)

: Size: 83 code + 0 data bytes
: Run Time: 00:03.8
: Elapsed Time: 00:14.1
: Lines/CPU Min: 3435
: Lexemes/CPU-Min: 9562
: Memory Used: 44 pages
: Compilation Complete

0216 AH-BT13A-SE
VAX/VMS V4.0

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